

## **DETAILED ACTION**

### ***Claim Objections***

1. Claim 9 is objected to because of the following informalities: “wherein an access point” on line 3 of claim 9 should have been changed to -said access point-. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 9, 11, 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cordeiro et al. (US 2010/0074190 A1) in view of Anke et al. (US 2007/0153802 A1).

Regarding claims 9 and 17, Corderio et al. teach an access control system and a method in a wireless LAN system using an access point to perform access control for accesses from a plurality of client terminals (see fig. 1), wherein said access point and each of a plurality of client terminals have a transmission device using a data transmission carrier wave frequency and a control signal transmission carrier wave frequency (see fig. 3 and pars. 0014-0016 and 0019-0021), wherein when the data transmission carrier wave frequency is not sensed on the wireless LAN, data are transmitted to the access point at a relevant data transmission carrier wave frequency (the data transmission carrier wave frequency not being sensed is very broad. Examiner interprets the data transmission carrier wave frequency not being sensed as if the QOS

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of the second channel is less than threshold value, the station associates with the access point using the first channel as taught by Corderio in fig. 2 and par. 0016), wherein when the data transmission carrier wave frequency is sensed on the wireless LAN, a band reservation request is sent to the access point at a relevant control signal transmission carrier wave frequency (the data transmission carrier wave frequency being sensed is very broad. Examiner interprets the data transmission carrier wave frequency being sensed as if the QOS of the second channel is above threshold value, then the station transmits an association request frame as taught by Corderio in fig. 2 and par. 0016); wherein after a transmission confirmation is received from the access point for the band reservation request, data is transmitted to the access point at a relevant data transmission carrier wave frequency (see fig. 2 and pars. 0015-0016; the type of data is communicated over the second channel). Cordeiro et al. do not mention wherein each of the plurality of client terminals has a memory storing priority information. Anke et al. disclose a client terminal comprising a memory storing priority information (see par. 0018). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above teaching of Anke et al. to the system of Corderio et al so that data is transferred in a prioritized order based on the transmission medium and factors relating to the medium.

Regarding claim 11, Corderio et al. also teach wherein each priority of the priority information is defined correspondingly to an application generating a transmission request (see fig. 2 and pars. 0015-0016).

Regarding claim 15, Corderio et al. also teach a client terminal applied to a wireless LAN system using an access point to perform access control, comprising: a transmission device using a data transmission carrier wave frequency and a control signal transmission carrier wave

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frequency (see fig. 3 and pars. 0014-0016 and 0019-0021); wherein when the data transmission carrier wave frequency is not sensed on the wireless LAN, data are transmitted to the access point at a relevant data transmission carrier wave frequency (the data transmission carrier wave frequency not being sensed is very broad. Examiner interprets the data transmission carrier wave frequency not being sensed as if the QOS of the second channel is less than threshold value, the station associates with the access point using the first channel as taught by Corderio in fig. 2 and par. 0016), wherein when the data transmission carrier wave frequency is sensed on the wireless LAN, a band reservation request is sent to the access point at a relevant control signal transmission carrier wave frequency (the data transmission carrier wave frequency being sensed is very broad. Examiner interprets the data transmission carrier wave frequency being sensed as if the QOS of the second channel is above threshold value, then the station transmits an association request frame as taught by Corderio in fig. 2 and par. 0016); wherein after a transmission confirmation is received from the access point for the band reservation request, data is transmitted to the access point at a relevant data transmission carrier wave frequency (see fig. 2 and pars. 0015-0016; the type of data is communicated over the second channel). Cordeiro et al. do not mention wherein each of the plurality of client terminals has a memory storing priority information. Anke et al. disclose a client terminal comprising a memory storing priority information (see par. 0018). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above teaching of Anke et al. to the system of Corderio et al so that data is transferred in a prioritized order based on the transmission medium and factors relating to the medium.

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3. Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cordeiro et al. (US 2010/0074190 A1) in view of Anke et al. (US 2007/0153802 A1) and further in view of Lee et al. (US 2007/0097941 A1).

Regarding claim 10, Cordeiro et al. do not teach wherein the access point has a memory for storing a priority control table registering priority information included in a band reservation request sent from the client terminal, and wherein when preceding communication is terminated, a transmission confirmation for the band reservation request is sent to a relevant client terminal in the order of priorities in priority information registered in a priority control table stored in the memory. However, Lee et al. teach the access point has a memory for storing a priority control table registering priority information included in a band reservation request sent from the client terminal, and wherein when preceding communication is terminated, a transmission confirmation for the band reservation request is sent to a relevant client terminal in the order of priorities in priority information registered in a priority control table stored in the memory (see par. 0011, 0021-0024). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above teaching of Lee et al. to the system of Cordeiro et al. so that data is transferred in a prioritized order based on the transmission medium and factors relating to the medium.

Regarding claims 12-14, Lee et al. teach wherein each priority of the priority information is defined correspondingly to an application generating a transmission request (see par. 0011, 0021-0024); wherein registration time, client identification information and a priority are registered for each piece of priority information in a priority control table for registering the priority information (see par. 0011, 0021-0024); wherein when a plurality of client terminals has

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the same priority of the priority information registered in the priority control table, the transmission confirmation is sent to a relevant client terminal in the order of time of the registration into the priority control table (see par. 0011, 0021-0024).

4. Claim 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cordeiro et al. (US 2010/0074190 A1) in view of Lee et al. (US 2007/0097941 A1)

Regarding claim 16, Corderio et al. also teach an access point applied to a wireless LAN system performing access control for a plurality of client terminals, comprising: a transmission device using a data transmission carrier wave frequency and a control signal transmission carrier wave frequency (see fig. 3 and pars. 0014-0016 and 0019-0021). Corderio et al. do not teach a memory storing a priority control table for registering priority information included in a band reservation request sent from a client terminal, wherein when preceding communication is terminated, a transmission confirmation for the band reservation request is sent to a relevant client terminal in the order of priorities in priority information registered in a priority control table stored in the memory. However, Lee et al. teach a memory storing a priority control table for registering priority information included in a band reservation request sent from a client terminal, wherein when preceding communication is terminated, a transmission confirmation for the band reservation request is sent to a relevant client terminal in the order of priorities in priority information registered in a priority control table stored in the memory (see par. 0011, 0021-0024). ). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above teaching of Lee et al. to the system of Corderio et al so that data is transferred in a prioritized order based on the transmission medium and factors relating to the medium.

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***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID Q. NGUYEN whose telephone number is (571)272-7844. The examiner can normally be reached on 8:30AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jinsong Hu can be reached on (571)272-3965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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